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Re: Application of Shinji YAMADERA, Nobuo IWAMURA, Naofumi KUTSUMI, Tadashi KINOSHITA, Teruo SAKAMOTO, Kenji MITSUISHI, Tsutomu KANEKO, Shin FUJITA and Yuichiro WATANABE
THE MANAGEMENT SYSTEM OF A PROCESS AND A MAN-DAY
Our Ref: Q63294

Dear Sir:

The following documents and fees are submitted herewith in connection with the above application for the purpose of entering the National stage under 35 U.S.C. § 371 and in accordance with Chapter II of the Patent Cooperation Treaty:

- ☒ an English translation of the International Application.
- ☒ eight (8) sheets of drawings.
- ☒ an English translation of Article 34 amendment.

The Declaration and Power of Attorney, Assignment, will be submitted at a later date.

It is assumed that copies of the International Application, the International Search Report, the International Preliminary Examination Report, and any Articles 19 and 34 amendments as required by § 371(c) will be supplied directly by the International Bureau, but if further copies are needed, the undersigned can easily provide them upon request.

The Government filing fee is calculated as follows:

Total claims	5	-	20	=		x	\$18.00	=	\$0.00
Independent claims	2	-	3	=		x	\$80.00	=	\$0.00
Base Fee									\$860.00
Multiple Dependent Claim Fee									\$270.00
TOTAL FEE									\$1130.00

A check for the statutory filing fee of \$1130.00 is attached. You are also directed and authorized to charge or credit any difference or overpayment to Deposit Account No. 19-4880. The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16, 1.17 and 1.492 which may be required during the entire pendency of the application to Deposit Account No. 19-4880. A duplicate copy of this transmittal letter is attached.

Priority is claimed from August 31, 1998, and March 31, 1999, based on Japanese Application Nos. 10/262441, and 11/90870, respectively.

Respectfully submitted,

Robert J. Seas, Jr.

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RJS/amt

8/PATS

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JC03 Rec'd PGT/PTO 28 FEB 2001

Specification

The management system of a process and a man-day

Technical field

This invention relates to a management system of a process and a man-day, including schedule management, a quality control, process management, etc.

Background technology

As conventional technology, the following invention is disclosed about the business management system including schedule management and process control.

(1) Provisional Publication No. Hei4-363758 economizes bank loan receptionist business, and it is related to the on-line loan operating registration system which uses an application registration processing part, a dealings for the first time in reference processing part, a loan request-for-managerial-decision creation part, a request-for-decision registration processing part, and a list creation processing part as a composition element for the purpose of reducing an artificial mistake.

(2) Provisional Publication No. Hei5-101080 does unnecessary the adjustment work which an operator does, and it sets up so that the electronic check which set the progress data of work as the database to the operating process scheduling system may be transmitted, and it is related with the system which transmits an electronic check according to the time set as the schedule for the purpose of improvement in operating efficiency.

(3) Provisional Publication No. Hei6-4838 is related with the database management system, which forbids accessing inaccurate data.

(4) Provisional Publication No. Hei6-35767 is related with the system, which accelerates the reference and processing to a database by changing an inquiry into the inquiry to a composition table, by the definition of a VIEW table, when the table, which a user asks, is a VIEW table.

(5) In Provisional Publication No. Hei8-101785, a document data registration means register document managed data with the created document data, a document data audit means perform a seal of approval based on the audit person and its audit route of the request determined with document managed data, a management number grant means, a document data distribution means, and a receipt managed data addition means are related to the document management system carried out as composition about a document

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and a data management system.

(6) Provisional Publication No. Hei8-137852 displays a share window, displays an icon, and displays an individual window etc, about the system, which manages common writing of a document, on the screen of a workstation.

Two or more files, which stored the common writing document, are stored in the file server, and this file is managed also as an individual document at the same time it is managed as a share document.

By the schedule table, an editor transmits a writing schedule to each writer, and it is related with the document management system, which manages adjustment of a schedule, and progress among common writers.

Invention of the document of (5) and a data management system (Provisional Publication No. Hei8-101785) has among the above a point with the point near this invention explained in full detail below which uses as a composition element a document data audit means to perform a seal of approval based on the audit person and its audit route of the request determined with document managed data.

However, in other composition, it is greatly different.

In this invention, the point that invention of Provisional Publication No. Hei8-101785 does not have such a composition element is deterministically different to managing the system and time for delivery especially in connection with quality.

Moreover, conventionally, the present condition is that paper management of standard-lives system management of ISO, execution record, and the quality record is carried out, and a synthetic business management system corresponding to [it is paperless and] ISO like this invention does not exist until now.

Moreover, the conventional man-hour control system has been carried out by displaying the accumulation table of a staff, operation days, and the amount of business in the time series.

And the total table and the display figure were created individually, and it limited, respectively and was indicating by the figure.

For example, in precedence patent application, the following invention is disclosed about the man-hour control system of the conventional technology.

(1) The basic pattern and work list data with which Provisional Publication No. Sho63-97443 "process control equipment" was stored in the memory part -- being based -- a plan, an actual result, and the progress situation of a process -- as the network of 1 -- terminal equipment and printing, and illustrating -- it is related with equipment at the process control equipment which indicates by the output.

However, the man-hour control of this design is not carried out using in-house

intranet.

(2) Utility Patent Provisional Publication No. Sho63-9051 relates to construction schedule plan equipment, which has the information registration part of the work which constitutes construction, and an actual result registration part, a resources total part and a work schedule change part.

However, this design does not perform man-hour control using in-house intranet, either.

(3) (4) Provisional Publication No. Hei4-176546, a progress management system" is related with the progress management system characterized by outputting alarm, when the production output actual result is less than the amount of target outputs.

However, this design does not perform man-hour control using in-house intranet, either.

(5) Provisional Publication No. Hei5-12300, the actual result display method in semiconductor equipment manufacture" is related with the actual result display method in the semiconductor equipment manufacture containing the actual result report step from each equipment in the manufacture line of semiconductor equipment, the step which carries out data processing, and the step which displays the degree of target achievement in diagram.

However, this design does not perform man-hour control using in-house intranet, either.

(6) Provisional Publication No. Hei6-176047, the production control method and its equipment" starts production control until it results [from an order received] in the completion of work, and is related with the production control method for grasping the load situation of each process, and equipment.

However, this design does not perform man-hour control using in-house intranet, either.

(7) Provisional Publication No. Hei6-309327, the display method of the required man day in the operating remaining period" offers the display method that it indicates by graph and the required man day in the remaining period of business can be recognized easily, substitutes for a predetermined formula the actual result man day which is the work load actually spent by the time of there being business, and the rate of progress of the business of the time concerned, and indicates the required man day of the remaining period by calculation.

However, this design does not perform man-hour control using in-house intranet, either.

(8) Provisional Publication No. Hei7-105275, a capability distribution setting

system" offers the interactive information system which attains the increase in efficiency of the business at the time of distributing equipment and a man to the production classification classified by the group, and the capability to perform capability distribution for every production classification is related with a strange report setting system, allowing reference excess and deficiency with a fiducial point for the fiducial point of capability, such as a man day and the number.

However, this design does not perform man-hour control using in-house intranet, either.

(9) Provisional Publication No. Hei9-248736, production planned planning equipment" realizes highly precise scheduling in which the time necessary for completion/man day of an actual result base were made to reflect, and is related with the production planned planning equipment of which a foldout is easily made possible to a special case-situation at a schedule.

However, this design does not perform man-hour control using in-house intranet, either.

Each above-mentioned invention and above-mentioned the present invention are greatly different.

In-house intranet is especially built by this invention, and the point over managing a man-day that it is paperless and synthetically in whole company is deterministically different.

A man-hour control system like this invention does not exist until now.

The following are included in one subject of this invention.

namely

(1) Connect the administrator in many areas on-line paperless], and provide management management and a related administrator with the progress management information on business (a conformity standard, each process administrator, beforehand a fixed day, a completion date, quality record, etc.).

(2) Manage much business by the minimum standard-lives system.

(3) Management business and ISO approval acquisition are automatically compatible.

(4) The conformity standard is beforehand authorized with the generalization person in charge according to the business, and reconciles improvement in the customer satisfaction in connection with the quality and the time for delivery of delivery of goods and business, and operating efficiency.

(5) Perform that reference of the newest version of standards can carry out easily, and business management by the newest standard.

(6) Manage the quality and the time for delivery of business.

(7) Carry out unitary management on a network.

(8) Enable lower layer process deployment about each process.

There are the following in the subject of one another invention of this invention.

(1) Carry out unitary management of the human-resources information (for example, a staff, composition, diligence and indolence, overtime work, a subcontract, etc.) paperless and on-line, and always provide a manager and many administrators with these newest information.

(2) An administrator should do what the amount information of business (for example, an order-received plan, operating classification, an operating estimated man day, an actual result man day, etc.), and by offering especially the amount of undecided business very easily on-line [paperless] -- it is -- build axis-databases, such as reading of the future, and management strategy, and aim at improvement in management power

(3) (4) For example, an about [2 piece year] short-term fiscal year plan, a top down instructions and bottom rise information, and offer year plan construction systems, such as a personnel secured design, are provided.

(5) Offer many information inputs by the area and a lot of people, totals, and labels.

(6) Classify free and offer the analysis figure display of a man day, office hours, etc. according to various kinds, such as an operating exception, an operating kind exception, and an office-organization exception.

(7) Manage the newest data including the change history of a plan and an actual result, cooperate to other process management systems etc., and offer business management correspondence quickly.

(8) Set up the authority of operation, an input, and perusal and perform secret reservation, etc.

The disclosure of the invention

In order to solve the above-mentioned subject, this inventor etc. constituted this invention as follows.

Namely, one of the inventions of these classifies the combination and the flow of an operating process into two or more patterns as operating classification beforehand.

Make a series of operating processes correspond to each operating classification, and the person in charge of each business enables it to choose out of this operating process.

Had a data preservation means to save a conformity standard with the above-mentioned person in charge, and the whole business is classified into two or more operating classification.

Have an operating classification registration means by which a person in charge chooses the operating classification of the business for management from them, and determines and registers it, and each operating classification is received.

Determine two or more management processes beforehand, and it has a management process display means to display this on a format in relation to the business for management. It has a means for a person in charge to determine a term and to display this on a format, for every management process.

The business management system which has a conformity standard display means to display a conformity standard corresponding to each management process, and has a quality record registration means to record and display the quality performed about the management process is offered.

The business management system which it is as follows, i.e., this invention will display a conformity standard, a generalization person in charge, and a person in charge, will draw up, correct and recognize the plan of the business for management, will attest execution, and will keep quality record if this invention is described from another angle -- it is -- the following means -- namely

(1) Classify into A_m as operating classification. $A_1, A_2, \text{ and } \dots$ which are two or more patterns beforehand about the combination and the flow of an operating process --

A series of operating processes a_{ij} ($j=1-n_i$), which constitute each, to each operating classification A_i ($i=1-m$) is made to correspond.

Furthermore, it enables it to divide these operating classification into some groups according to the contents of operating etc., and change, the addition, etc. can be made to do this group by expansion of business etc. -- namely

$$\text{Total business} = \sum_{i=1}^m A_i + \sum_{i=1}^k B_i + \sum_{i=1}^l C_i + \dots\dots$$

$$A_i = \sum_{j=1}^{n_i} a_{ij} \quad , \quad B_i = \sum_{j=1}^{s_i} b_{ij} \quad , \quad C_i = \sum_{j=1}^{t_i} c_{ij}$$

It Am(s). And the generalization person in charge of business -- first -- the group of operating classification, A1 and A2, and....

Business classification B1, B-2, and.... Bk, C1, C2, and.... the nearest out of Ci --

For example, it enables it to choose Ai (the same, although Bi and Ci are chosen). Furthermore, enable it to plan a series of persons in charge and schedules of the operating process a_{ij} ($j=1-n_i$), which constitute Ai.

Furthermore, in this operating process a_{ij} , the person in charge of each operating process enables it to choose a generalization person in charge, and he has a data preservation means to save a generalization person in charge and a person in charge, and a conformity standard.

(2) It has an operating classification registration means by which a generalization person in charge chooses the operating classification of the business for management from them, and determines and registers it.

(3) The combination of all operating processes including two or more designs, manufacture, and management is beforehand determined to each operating classification, and it has a management process display means to display this management process on a format.

(4) A generalization person in charge or a person in charge has a means to determine the term of the operating process a_{ij} and to display this on a format, for every management process.

(5) It has a conformity standard display means to display the conformity standard made to correspond to each management process.

(6) Record the quality performed about each management process, display, and offer the business management system characterized by having each means of a quality record registration means to keep it.

Preferably, a business management system is a business management system made to correspond to a demand of an ISO 9000 guarantee-of-quality standard.

Moreover, it is the business management system, which makes the adaptation range of standard correspond to the pattern of the management method beforehand about conformity standard, and makes the standard procedure correspond to a management process preferably.

Moreover, this invention offers preferably the business management system which has a network deployment means to develop the above-mentioned business management system on networks, such as the Internet or intranet.

Moreover, the business management system which enables deployment to the lower layer

desirable management process about the above-mentioned management process and which has insertion of a management process, deletion, correction, and a move means is offered.

Moreover, the business management system characterized by incorporating preferably the software, which can display intranet and a table in a Web server, is offered. Moreover, one with this invention is the man-hour control system built by servers, such as document management in the homepage on networks, such as intranet and an in-house network.

Also on-line-input somewhere in the company, it enables it to peruse them, and the software in which a front display is possible is used. By the input means and the output means

As the data item of an input means -- schedule data and actual result data -- containing -- and -- as the data item of an output means -- a product top man day, overtime work time, and these accumulation man days -- the time -- a display in series graph is possible -- carrying out -- man-hour control -- a system -- providing.

Preferably, the above-mentioned input means can reexamine, correct and input the plan of the part in two or more fiscal years at the beginning of every month henceforth as schedule data at a beginning of period, and the system which a schedule / actual result data item can input data, such as a staff, annual-paid-holidays acquisition, indirect time, and in-house man day and a subcontract man day, and can perform the graph display of the man day received an order and an undecided man day to a target man day is offered.

Moreover, the input of each above-mentioned data offers those (for example, group manager) to whom authority was given, or the system made into the consignment person. Furthermore, the summary sheet of the above-mentioned output means offers the system whose display of an in-house man day and a subcontract man day is enabled according to operating classification or an order-received form a project exception (a project number and product exception, project name) and an office-organization exception (according to a part, a section, an operation division, and company).

Furthermore, the system of the claim 1 publication, which limits perusal authority only to ID registrant, is offered.

And the system characterized by being another WEB server and database which the document managed software which moves on the above-mentioned network again connects to the document managed software with an attestation function or it which moves on intranet is also offered.

Brief explanation of the drawings

Fig. 1 is a figure showing the file composition of the business management system (PMS), which is one case of the operation of this invention.

Fig. 2 is a figure showing the operation procedure of the business management system (PMS) of one case of the operation of this invention.

Fig. 3 is a figure explaining the operation method of the business management system (PMS) of one case of the operation this invention.

Fig. 4 is a figure explaining the operation method of the business management system (PMS) of one case of the operation this invention.

Fig. 5 is a figure showing the data structure of the man-hour control system (PMS), which is one case of the operation of this invention.

It is the figure in which displaying an input item by ○, displaying an automatic total item by ●, to the data item of the man-hour control system (PMR) whose figure 6 is one case of the operation of another invention of this invention, and showing the formula of f, g, m, n, p, and q which are an automatic total item as reference.

Fig. 7 is the flow chart of the man-hour control system (PMR) of one case of the operation of this invention.

Fig. 8 is an analysis figure of the man-hour control system (PMR) of one case of the operation of this invention.

The best mode for carrying out the inventing

In this invention, it shall be understood as business in a wide sense including the quality of the whole project business or each business, schedule management business, etc.

In this invention, this shall be understood as a man-day or artificiality in a wide sense including artificial numbers, such as staff X days.

Especially the person in charge used by this invention means the person in charge who takes charge of the process of the generalization person in charge who manages

operating at large, the person in charge who takes charge of each process, and the low rank of each process, when not distinguishing from a generalization person in charge.

With the conformity standard used by this invention, a standard in the company, a quality manual, the standard for every operation division, the standard of a part, a group standard, a procedure document, a manual, etc. include international and standards [, such as a standard,], such as necessity or useful regulation which it is decided and a contract and a customer demand, external regulation, a regulation, and JIS, etc. in execution of business regardless of how of a name.

The quality record used by this invention expresses the result of execution of each process, and contains arrangement record, a drawing, a list, inspection data, etc. As hardware used by this invention, by this contractor, if it is the computer, which can use the TCP/IP protocol generally used, it can be especially used without restriction.

The software, which can display the table used by this invention, can also be especially used without restriction.

For example, browsers, such as commercial spreadsheet software and Netscape, can be used.

The Internet and intranet can be used as a network used by this invention.

The system of this invention is preferably built by servers, such as document management in the homepage on networks, such as intranet and an in-house network. And it is another WEB server and data base which the document managed software which moves on the above-mentioned network again connects to the document managed software with an attestation function or it which moves on intranet preferably.

In this invention, as an example, information is assembled on a Web server with intranet software, and it is constituted so that it may transmit to a terminal.

Namely, -- for example

- (1) Give Demand from Terminal to Web Server.
- (2) Pull Out Information from Server according to the Demand.
- (3) Return the Contents of information to Terminal.
- (5) Display at a terminal with the software, which can display a table.

Of course, it is possible to also make it operate as another system in this invention combining soft both that can display intranet software and a table in a Web server.

In the company and external somewhere can also be on-line-inputted, and this system can peruse them, as long as the network is being installed.

In the business management system which 1 of this invention displays conformity

standards, such as a standard-lives system, attests execution of business, and keeps quality record of execution record etc.

First, each business for management is decomposed into the combination of the management process of plurality (A pieces).

As for A, lessening as much as possible is desirable.

Below, about each management process, it does not leak by the standards of in the company, and a customer demand matter, the demand matter of an ISO 9000 guarantee-of-quality standard, regulation of execution record, etc. are specified. And all business is arranged in the operating classification of the small number (B pieces) which consists of the part or all the combination of the A above-mentioned management processes.

As for this number, lessening as much as possible is desirable.

Moreover, a generalization person in charge enables it to choose the nearest thing from the B above-mentioned operating classification according to an order-received form, delivery of goods, an operating form, etc.

In the start of business, a generalization person in charge registers with a ledger, fills in a completion date etc. first, and fills in a completion actual result etc. at the time of completion.

In a ledger, a fixed day, a completion date, etc. can be looked through beforehand and progress of all business can be surveyed.

The perusal range of this ledger is limited to a person with specific authority, and secret nature can also be secured.

A management process can be displayed as a line (sequence), and the addition of the line (sequence) and deletion create the B above-mentioned operating methods using the function of the software (for example, spreadsheet software), which can display an easy table, and they are registered as a format (henceforth a PMS format) of this invention system.

When the business management system (PMS) of this invention is carried out by the above composition, a conformity standard is displayed, execution of business is attested and attestation acquisition of the ISO 9000 guarantee-of-quality standard of requiring that quality record should be kept is attained.

And this becomes paperless and possible.

It is desirable, and making a PMS format into the structure which can be expanded and contracted using the total function which can display a table and which is equipped soft sets up the generalization screen in the state where it contracted, and the deployment screen in the state where it was extended, and it has structure which can

be perused.

And the progress situation of the business concerned can grasp easily with a generalization screen.

On a deployment screen, the addition of a process line, deletion, the deployment to a detailed process, etc. can be coped with flexibly.

In this invention, it is possible to incorporate soft both that can display intranet and a table in a Web server.

As a data item of an input means to use by this invention, there are schedule data and actual result data, for example.

As a data item of an output means to use by this invention, a product top man-day, overtime work time, and these accumulation man-days are included, for example.

Setting of the data item of output, the time series graph, a display is possible by this invention.

Preferably, the above-mentioned input means can reexamine, correct and input the plan of the part in two or more fiscal years at the beginning of every month henceforth as schedule data at a beginning of period.

And data, such as a staff, annual-paid-holidays acquisition, indirect time, and in-house man day and a subcontract man day, can be inputted as a schedule / an actual result data item.

In this invention, the graph display of the man-day received an order and undecided man-day to a target man-day can be performed as a data item of the above-mentioned output means.

Furthermore, in this invention, the summary sheet of the above-mentioned output means can display an in-house man-day and a subcontract man-day according to operating classification or an order-received form a project exception (a project number and product exception, project name) and an office-organization exception (according to a part, a section, an operation division, and company).

In this invention, the total value or table of the above-mentioned output means coordinates with other document managed software, for example, an operating process, a schedule management table, etc., and can display.

In this system, since document managed software with an attestation function is used, let the input of each above-mentioned data be those (for example, group manager) to whom authority was given, or its consignment person.

Furthermore, perusal authority is limited only to ID registrant.

Examples

The examples of the business management system of this invention are explained in detail below.

These cases of the operation are examples, and if it is this contractor, what was changed [change / design / which can be made easily] is contained in the range of protection of this invention.

In this case of the operation, using the network, which used the TCP/IP protocol, the Web server was constituted from Windows NT (trademark), and the terminal was moved by Windows 95 (trademark).

The Frame Relay of NTT was used as the communication method.

Example 1

The business management system (PMS) data structure, which is an example of the invention of the business management system (PMS)

An example of invention is shown in Fig. 1.

The structure is as follows.

Data consists of title column data and contents column data of operating.

Title column data consists of the nine following kinds of data.

(1) "A section" The words and phrases which express office organization for the affiliation section of the generalization person in charge of the business concerned is inputted.

(2) "A generalization person in charge" Words and phrases, such as position and rank which discriminate the generalization person in charge of the business concerned, are inputted.

(3) (4) "A management number" It registers by the ledger function which may contain number for management (whole company unitary management is possible) of the business concerned in this system, and the number (identification number) is inputted.

(5) "A creation day" The creation day of the PMS table concerned is inputted by the date.

(6) "Delivery of goods" Words and phrases supplied to the operating enforcement result concerned, a customer, etc., such as goods and an operating result, are inputted.

(7) "○ mark at the time of completion" When the business concerned is completed, marks (○ mark etc.) are inputted for discernment.

(8) "The comment column" When there is a process which requires deletion, an addition, change, etc. by the contract with a customer etc. in a setup of the process of the

business concerned, the words and phrases of the explanation are inputted.

It has the authority filled in as the date which filled in (9) "date entry person" above-mentioned (8) "The comment column", and the name of those who filled in enforcement, and the words and phrases of discernment are inputted.

And the contents data of operating consists of the eight following kinds of data.

(1) "A completion plan" The plan value of the completing date of the process concerned is inputted by the date.

(2) "A completion actual result" The actual result value of the completing date of the process concerned is inputted by the date.

(3) (4) "The contents of operating" The words and phrases which show the contents of operating of the process concerned are inputted.

(5) "A quality record number" The number of quality record of the process concerned is inputted.

(6) "A person in charge" A person's in charge name or executive name of the process concerned is inputted.

(7) "A standard name" The conformity standard name of the process concerned is inputted.

(8) "A standard number" The conformity standard number of the process concerned is inputted.

Example 2

The flow chart of the system of the business management system (PMS), which is one case of the operation of two cases-of-the-operation inventions

Table 1 specifies the operation authority person for every classification, and those who can be perused.

[Table 1]

Classification		Operation authority person (Creation, change, registration, acquisition, perusal)	Those who can be perused (A copy acquisition person also contains)	Note
PMS table ledger		Generalization person in charge	More than a chief	Notes A Generalization person in charge is more than the manager.
PMS table Common format		Generalization person in charge	Employee all the members	
PMS table Operation	Creation, change	Generalization person in charge	Selection of only a specific user is possible more than a chief.	
	Middle record	The operation division concerned and more than the group manager of a branch office		
	Change, disposal	The operation division concerned and more than the group manager of a branch office		
	Completion disposal	Generalization person in charge		
PMS table filing	PMS table filing	Or Generalization person in charge	Selection of only a specific user is possible more than a chief.	
	Move area	Generalization person in charge		

Example 3

The operation procedure of the business management system (PMS) of the case of the operation of operation procedure book invention of the business management system

(PMS) of the case of the operation of three cases-of-the-operation inventions is explained below, referring to Fig. 2.

1. Start

2. Determine the basic matter of the contents of management of business.

In this case, one pattern is chosen from [of N pieces] operating classification patterns.

3. A generalization person in charge acquires a management number in a ledger.

4. A generalization person in charge decides the contents of all management processes, and manages the whole business on a screen level.

(1) Decide the check of all the processes that should be managed, an addition, and deletion according to each business.

(2) Set up time for delivery (completion time).

(3) Decide the conformity standard of (4) each process.

5. A person in charge determines the details of the contents of management of the process in his duty.

A deployment screen will be specified if it requires.

If the contents of management of their process in their duty are checked and required on a generalization screen, a process will be added to a low rank person on a deployment screen.

Example 4

The starting method of the system of the case of the operation (PMS)

The starting method of the case of the operation of this system is explained referring to Fig. 3.

This case of the operation is an example of operation at the time of using live link (trademark) as intranet software.

"Document management" of live link (trademark) is chosen from 1(1) head office intranet homepage.

(2) Next, choose a library.

(3) A 2. (1) Generalization person in charge chooses an applicable operation division PMS ledger.

(2) Save on a local disk (My documents) by checkout.

3. ① the operating classification A1, A2, A3, and B1 of PMS, B-2, C1 and C2, and.... determine the operating classification concerned out of C6

(2) Open a file and fill in required matters, such as a name, a creation day, position

and rank, and a completion plan.

(3) Choose the PMS format corresponding to the operating classification determined by 3. (1) From 4. (1) Common formats.

(2) Fill in a required matter and save on a local disk (My documents).

③ Add (4) member.

(5) Add a document and set up authority. (6) In order to present perusal, register

(6) In order to present perusal, register an alias into a library.

When carrying out to the ability only of a specific user to be perused, a PMS table is indicated only to a specific user.

(7) And since it completed, creation starting / perusal registration connects a project name to a related person.

5.① Perform middle entry, change disposal, and completion disposal.

(2) Filing of a PMS table (it changes for the alias for perusal).

6. Only in perusal, open the alias for perusal.

Example 5

Addition of lines, and deployment screen (outline) creation

This case of the operation is an example of operation at the time of using Excel (trademark) as software, which can display a table.

For example, when adding one line to the 13th line, (1) left end No.13 are clicked and (2) [insertion]-[line] is chosen.

The contents of operating etc. are copied or inputted and are created suitably.

In line deletion, [edit]-[deletion] is chosen after clicking No. to delete.

No. which the above-mentioned operation was repeated twice in creation of a deployment screen, and was added two lines -- let 13 and 14 be the deployment screens of No.12

In this case, (1) No. -- 13 and 14 -- dragging -- (2) [data]-[setting of group and outline] - [group-ization] is chosen

(3) The Deployment Method,

1. When all the outlines set as the worksheet are developed

(1) A Click of Level Number 1 Displays "Generalization Screen."

(2) A click of the level number 2 displays a "deployment screen."

2. When Only Target Group is developed,

(1) A Click of Minus at the left end of the Target No (-) Folds Up Line.

(2) A click of plus (+) develops a line conversely.

The example operated combining soft both which can display intranet software and a table in case-of-the-operation 6 Web server.

Example 6

It is made to operate combining soft both which can display intranet software and a table in a Web server by performing the above-mentioned paragraph 0016 and the above-mentioned paragraph 0017 continuously.

Example 7

The data structure of PMR is shown in data structure figure 5 of the man-hour control system (PMR), which is another case of the operation of seven cases-of-the-operation inventions.

(1) In the case of "the whole (group sum total)", it is days about "staff" (the change in the middle of possession number and month-long is inputted by operating days ratio) "operation days" (days of the operation to monthly) "annual-paid-holidays acquisition" : annual paid holidays, and a schedule/actual result inputs each item of "indirect time" (what is not direct operating time, such as education) according to each group

In addition, only a schedule inputs all the possession man days that the overtime work time which averaged "average overtime work" to per person, and the "total man day" want to work also including in the company and outside intentionally.

The schedule or actual result of the actual result of "average overtime work" and the "total man day", an "in-house man day", and a "subcontract man day" is automatically totaled from other items.

(2) Although each order-received business number and manages the number concerning management systems (hereafter referred to as PMS.), such as a special operating process and a schedule, in "order-received decision operating", a schedule/actual result inputs necessary "in-house man day" and a "subcontract man day" for every unit of each.

In the case of the business when not setting up the above-mentioned PMS number, it inputs as "outside of PMS" similarly.

Each business inputs "operating classification data", such as a technical individual or a design contract.

The sum total of an in-house man-day and a subcontract man-day is totaled automatically.

(3) -- " -- The case of undecided part" -- "total man day" - undecided with a difference with a "order-received decision man day" -- a part -- a schedule value is automatically totaled for an "in-house man day" and a "subcontract man day" [of the possession from

the above-mentioned input]

Next, to each item of Fig. 5, ○ displays an input item, it displays an automatic total item by ●, and Fig. 7 shows the formula of f, g, m, n, p, and q, which are an automatic total item as reference.

Example 8

Flow chart of PMR and PMS

Fig. 7 is the flow chart of PMR and PMS.

- (1) First, a user inputs a password and logs in.
- (2) Next, choose PMR man-hour control.
- (3) And choose "PMR input" or "PMR output" of the screen of a PMS/PMR main menu.
- (4) Next, specify or select, and open an "information input", a "summary sheet", or an "analysis figure", and input-operate it or a necessary group etc. peruses office organization, operating classification, a PMS number, etc.
- (5) Moreover, the PMS table of relation and PMS ledger from a PMS/PMR main menu -- also entering -- supposes that it is possible

[0030]

Example 9 PMR analysis figure

The analysis figure of PMR is displayed on Fig. 8.

- (1) "PMS□□ development" -- the moon unit from starting of the project to completion -- the time -- a series horizontal axis -- carrying out -- a schedule man day (in the company, subcontract) -- the actual result man day to this time -- having displayed -- a thing.
- (2) "According to group" displays a schedule man day (part in 2 fiscal year), and average overtime work time, in the actual result to this time, and future undecided part.
- (3) "According to operation division" displays the above classified thing, where the operating classification and order-reeived form are displayed.

Effect of invention

Since this invention was constituted as above, this invention does the following effect so.

Namely

- (1) The administrator in many areas is connected on-line [paperless], and management management and a related administrator can be provided with the progress management

information on business (a conformity standard, each process administrator, beforehand a fixed day, a completion date, quality record, etc.).

(2) Much business is manageable by the minimum standard-lives system.

Moreover, since the relation between standard can grasp easily, a standard can be optimized.

(3) It is [format / PMS / of this invention] manageable in creation of verification demanded by the customer and the ISO 9000 guarantee-of-quality standard, and quality record, storage and progress of business, and time for delivery by preparing the entry column of a generalization person in charge, each person-in-charge name, a conformity standard, an execution record number, and a completion plan and an actual result, and being able to do and perusal and writing entering a conformity standard and an execution record format to a format by intranet, on the same software

And this becomes paperless and possible.

(4) Business management by the newest standard can be performed.

(5) The quality and the time for delivery of business are manageable.

(6) Unitary management can be carried out on a network.

A possibility that an old standard may be based disappears.

(7) Since a list indication of the term of each process is given in the schedule management display of this invention, the inconsistency in the schedule of each process can discover at a glance, and is useful on business management.

(8) Correction is easy, when a problem is discovered by the contents of each process and the schedule management display of this invention takes change, since creation of a deployment screen is easy.

(9) It is possible to set up each schedule management by the schedule management display of this invention, referring to the whole schedule management, since the mutual deployment to a deployment screen from a generalization screen is easy.

(10) Since there are a generalization person in charge, the person in charge of each process, a conformity standard, execution record, entry of a date, and the display column in the PMS format of this invention, standardization of business and clarification of responsibility authority are possible.

(11) In the PMS format of this invention, during the last completion actual result days in case two or more administrators perform the process of a same name, un-starting [of a certain process], and advance, the state of completion can be expressed as a color and it is help [management].

Another invention of this invention has the following effect.

(1) Since unitary management of the human-resources information (for example, a staff,

composition, diligence and indolence, overtime work, a subcontract, etc.) was carried out paperless and on-line, a manager and many administrators can always be provided with these newest information.

(2) the amount information of business (for example, an order-received plan, operating classification, an operating estimated man day, an actual result man day, etc.) -- since especially the amount of undecided business was offered very easily on-line [paperless], an administrator should do what -- it is -- axis-databases, such as reading of the future and management strategy, can be built and improvement in management power can be aimed at

(3) Since an administrator can be provided with the manpower information (they are a plan and an actual result especially) on proper distribution (correspondence to an excess-and-deficiency staff and the amount of excess-and-deficiency business) of the human resources to the amount of business, i.e., each operating project, and each of its process level, deliberations, such as equalization, increase in efficiency, etc. between administrators, and a management disposal system can be offered.

(4) For example, the top of an about [2 piece year] short-term fiscal year plan, a down (instructions), and bottom rise information can be disclosed, and year Plan construction systems, such as a personnel secured design, can be offered.

(5) Offer many information inputs by the area and a lot of people, totals, and labels.

(6) It can classify free and the analysis figure display of a man day, office hours, etc. can be offered according to various kinds, such as an operating exception, an operating kind exception, and an office-organization exception.

(7) The newest data including the change history of a plan and an actual result is managed, it coordinates with other process management systems etc., and business management correspondence can be offered quickly.

(8) The authority of operation, an input, and perusal can be set up and secret reservation can be performed.

What we claim:

1. (After amendment)

An operational control system which displays a conformity standard, a person in charge, an expected date and a work breakdown in a format, draws up, corrects and recognizes the plan of activities, attests execution, and keeps a Quality records, said operational control system satisfies a demand of ISO 9000 guarantee-of-quality specification, and has network expansion implements, such as the Internet or intranet, and comprises the following means:

(1) Classifying the combination and the flow of an activities process into two or more patterns as an activities partition beforehand, making a series of activities processes which constitute each to each activities partition correspond, and it enables to choose the person in charge of the activities of this activities process each, and has a data preservation implement to save a person in charge and a conformity standard.

(2) The activities for management are beforehand classified into two or more activities partitions, and it has an activities partition registration implement by which a person in charge chooses the activities partition of the activities for management from them, and determines and registers it.

(3) The combination of all activities processes including two or more designs, manufacture, and management is beforehand determined to each activities partition, and it has an executive-process display implement to display this executive process on a format.

(4) A person in charge has an implement to determine the time limit of an activities process and to display this on a format, for every executive process.

(5) It has a conformity par display implement to display the conformity standard made to correspond to each executive process.

(6) The process which records the quality performed about each executive process, displays, and is characterized by having each implement of a Quality-records registration implement to keep it,

and indicating by sight in a format, a conformity standard, and a Quality records, the person in charge, appointed day, and work breakdown, such as an expected date, a completion appointed day, for every process.

2. (After amendment)

The operational control system which displays a conformity standard, a person in charge, an expected date, and a work breakdown, draws up, corrects and recognizes

the plan of the activities for management, attests execution, and keeps a Quality records.

The above-mentioned operational control system satisfies a demand of ISO 9000 guarantee-of-quality specification, and has network expansion implements, such as the Internet or intranet, comprising the following implements:

(1) Classifying into A1, A2, and....Am as operating classification, which are two or more patterns beforehand about the combination and the flow of an operating process, a series of operating processes a_{ij} ($j=1-n_i$), which constitute each, to each operating classification A_i ($i=1-m$) is made to correspond, furthermore, according to the contents of operating etc., these operating classification being made to be able to divide some groups, moreover, this group being made to be able to change and add, according to the expansion of business etc., that is,

$$\text{All activities} = \sum_{i=1}^m A_i + \sum_{i=1}^k B_i + \sum_{i=1}^l C_i + \dots$$

$$A_i = \sum_{j=1}^{n_i} a_{ij} \quad , \quad B_i = \sum_{j=1}^{s_i} b_{ij} \quad , \quad C_i = \sum_{j=1}^{t_i} c_{ij}$$

And the generalization person in charge of business is able to select the nearest operating classification from A1 and A2, and...Am, B1, B-2, and.... Bk, C1, C2, and... C1.

It enables to choose A_i , for example (the same, although B_i and C_i are chosen), furthermore, enable it to plan a series of persons in charge and schedules of the operating process a_{ij} ($j=1-n_i$), which constitute A_i .

Furthermore, in this operating process a_{ij} , the person in charge of each operating process enables it to choose a generalization person in charge, and he has a data preservation means to save a generalization person in charge and a person in charge, and a conformity standard.

(2) It has an activities partition registration implement by which a generalization person in charge chooses the activities partition of the activities for management from them, and determines and registers it.

(3) The combination of all activities processes including two or more designs, manufacture, and management is beforehand determined to each activities partition, and it has an executive-process display implement to display this executive process

on a format.

(4) A generalization person in charge or a person in charge has an implement to determine the time limit of the activities process and to display this on a format, for every executive process.

(5) It has a conformity par display implement to display the conformity standard made to correspond to each executive process.

(6) The process which records the quality performed about each executive process, displays, and is characterized by having each implement of a Quality-records registration implement to keep it, and indicating by sight in [formatting the expected date for every process, a completion appointed day, a conformity standard a Quality records, etc.], and the operational control system of a man day.

3. (Deletion)

4. (Deletion)

5. Process according to claim 1 or 2 characterized by having insertion of executive process of lower layer executive process, deletion, and move implement in above-mentioned executive process, and operational control system of man day.

6. Process according to claim 4 characterized by incorporating software, which can display table in Web server, and operational control system of man-day.

7. (After amendment) Are the managerial system of the process built by servers, such as a documentation management in the homepage on networks, such as intranet and an enterprise network, and a man day, and also online-input somewhere in the company, and it enables it to peruse them, and this system includes an input implement and an output implement using the software which can display a table.

The process of six the claims 1, 2, and 5 interlocked with the managerial system of the process characterized by having each above-mentioned implement which enables the display of a product top man day, overtime, and these accumulation man days in a time series graph as a data item at the output implement concerned, including schedule data and actual result data, and a man day as a data item at the input implement concerned, and given in any 1 term, and the operational control system of a man day.

8. (Deletion)

9. (Deletion)

10. (Deletion)

11. (Deletion)

12. (Deletion)

13. (Deletion)

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Fig. 1

Completion plan
Completion actual result
Process
The contents of operating
Quality record number
Person in charge
Standard record
Standard number

Fig. 2

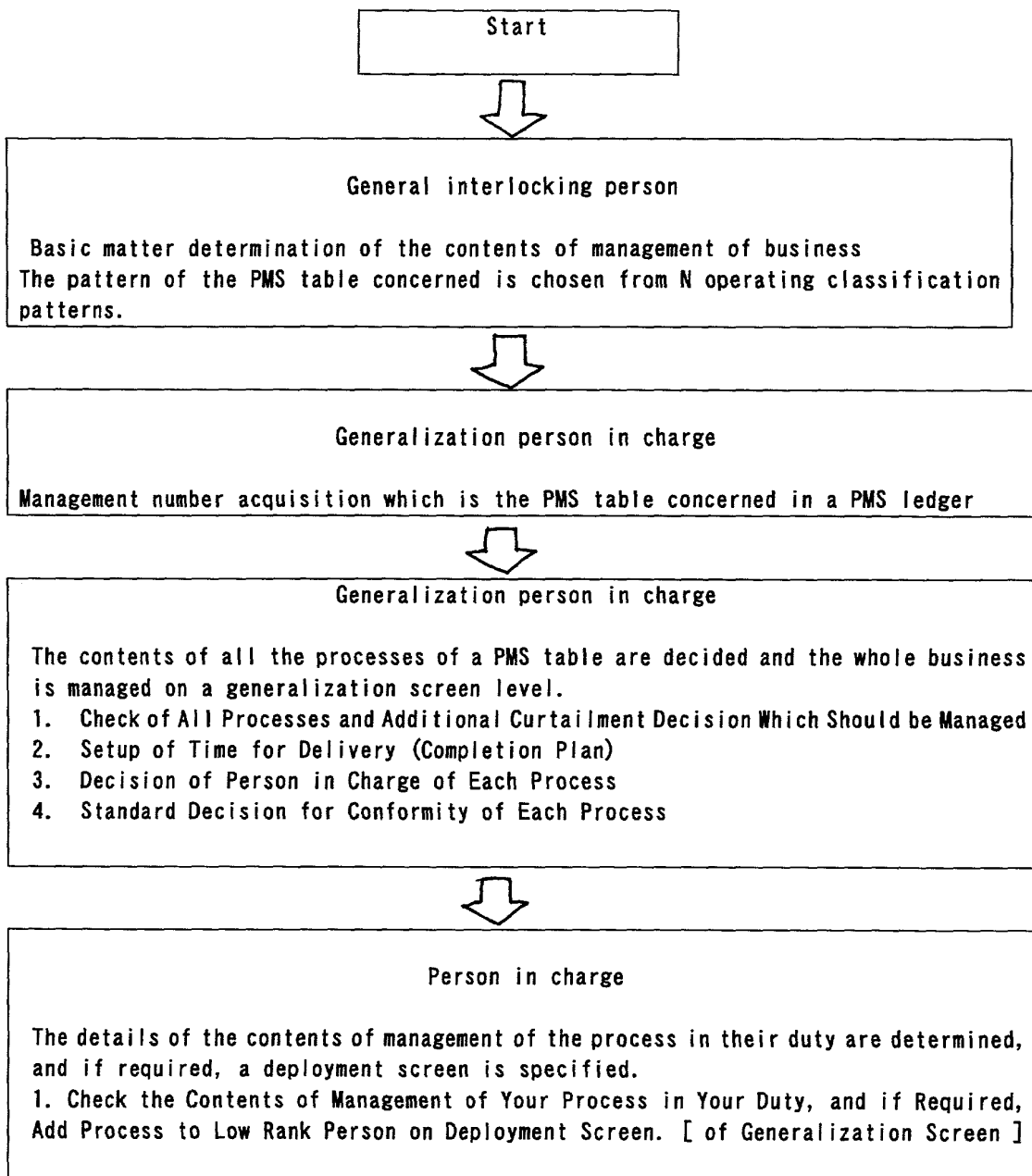
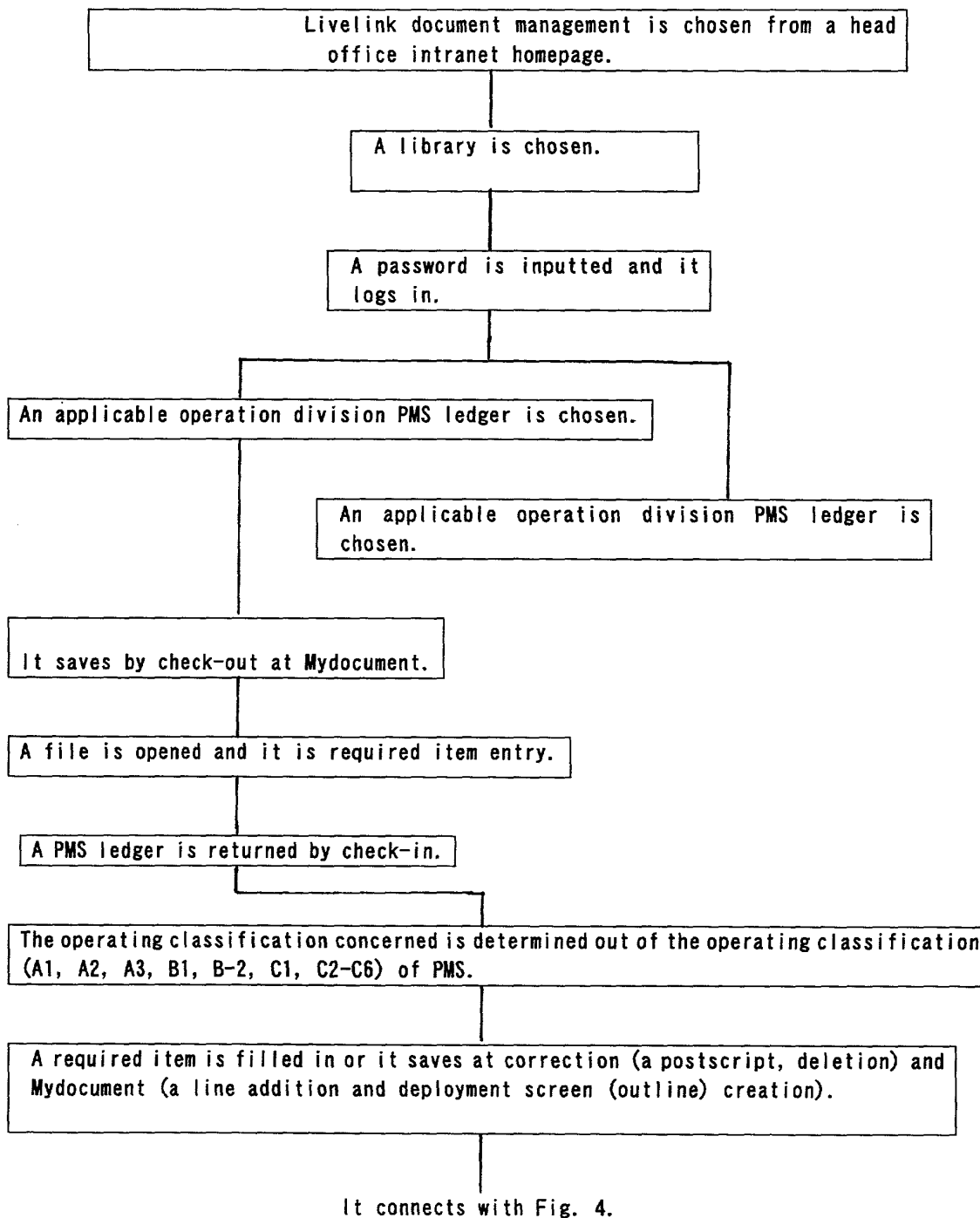


Fig. 3



FOUO 2469260

Fig.4

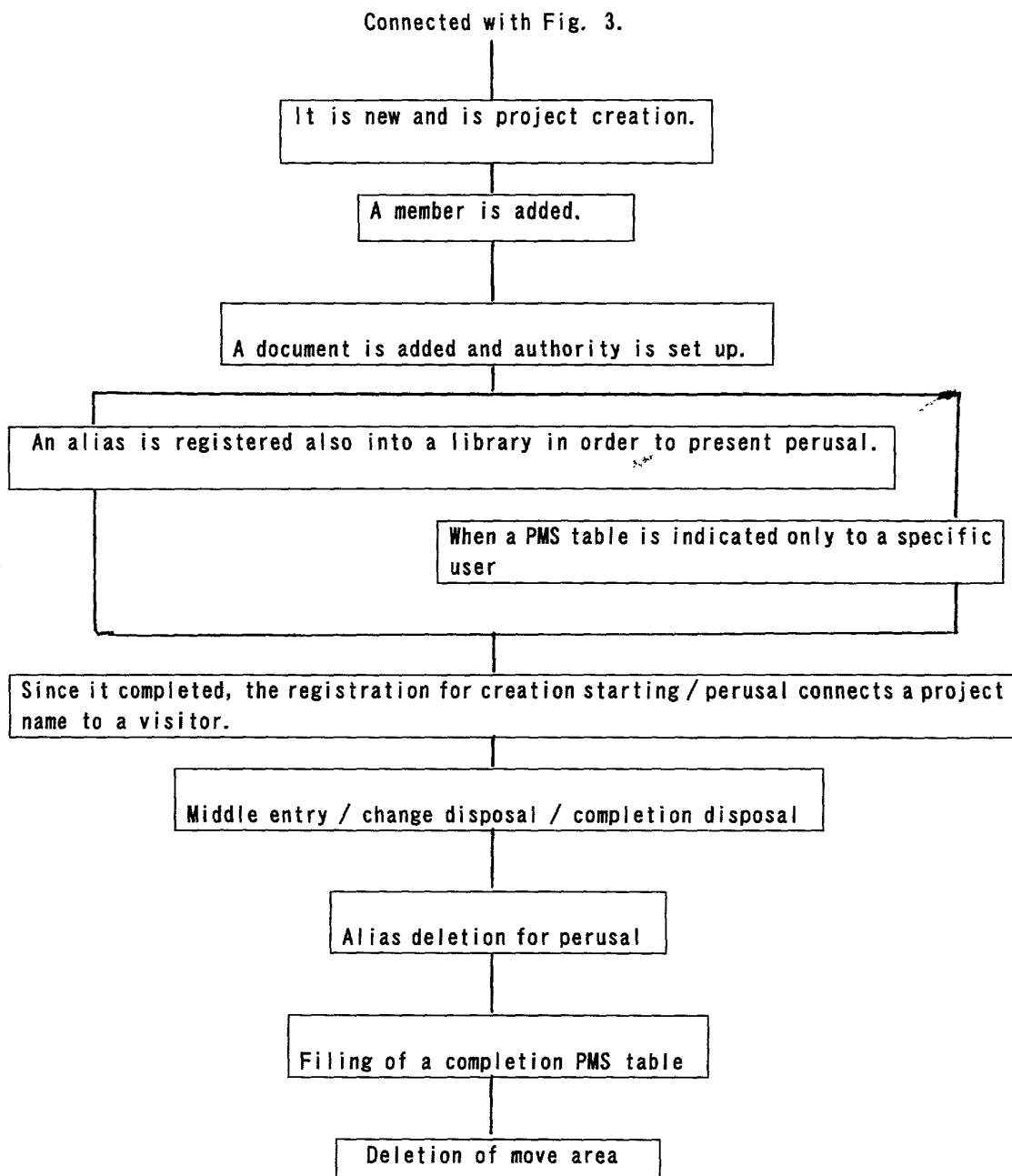


Fig. 5

Classification		item	note
Whole (group sum total)		Staff Operation days Average overtime work Annual-paid-holiday s acquisition Indirect time In-house man day Subcontract man day The total man day	
Order-received decision business	PMS unit	In-house man day Subcontract man day Sum total	data is included.
	Outside of PMS	In-house man day Subcontract man day Sum total	data is included.
Undetermined		In-house man day Subcontract man day Sum total	

09/763942-060101

Fig. 6

Item		schedule	actual result	note	
Whole group total]	[the sum	Staff (number)	○a	○	Sign ○ : Data entry ● : Automatic total ← : This left — : It does not correspond. Note: * mark The indirect time (education etc.) is filled in as a direct time appropriation staff. (Reference) Formula
		Operation days(Sun.)	○b	—	
		Average overtime work (H/person)	○c	●	
		annual-paid-holidays acquisition(Sun.)	○d	○	
		Indirect time (H)	○e	●	
		In-house man day (H)	●f	●	
		Subcontract man day (H)	●g	●	
		The total man day (H)	○h	●	
Each PMS unit		In-house man day (H)	○i		
		Subcontract man day (H)	○j		
		Sum total (H)	●k	●	
Outside of PMS (according to A1 and A2)		In-house man day (H)	○l	○	
		Subcontract man day (H)	○m	○	
		Sum total (H)	●n	●	
A part for undecidedness		In-house man day (H)	●o	—	
		Subcontract man day (H)	●p	—	
		Sum total (H)	●q	—	

Calculation formula
 $F=8[(a \times b)-d]+(a \times c)-d$
 $g=h-f \quad m=j+k \quad n=f-\sum j \quad p=g-\sum k$
 $q=n+p$

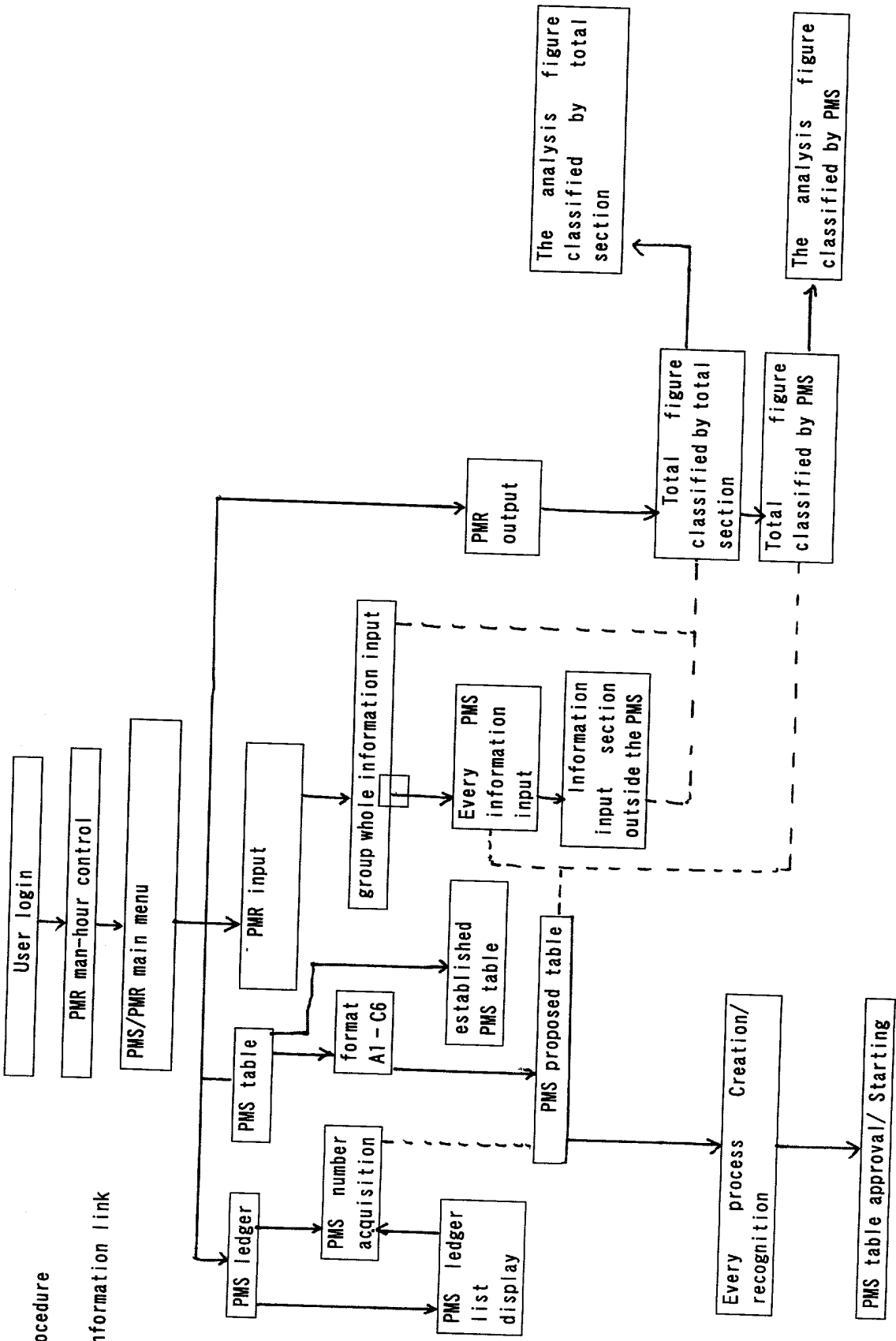
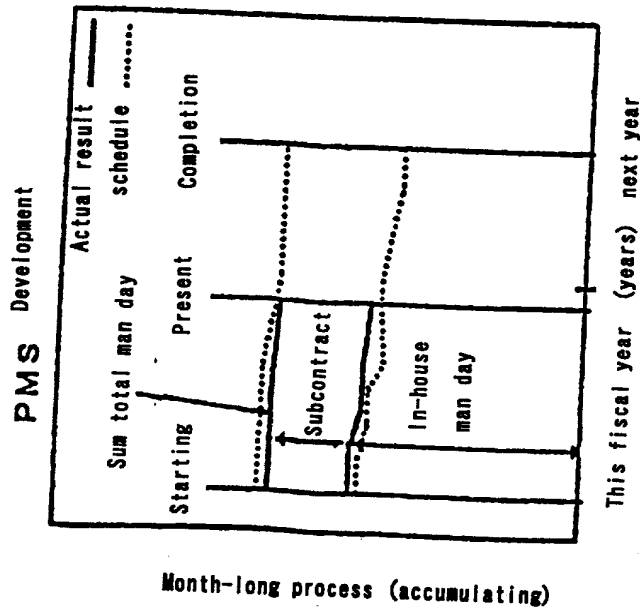
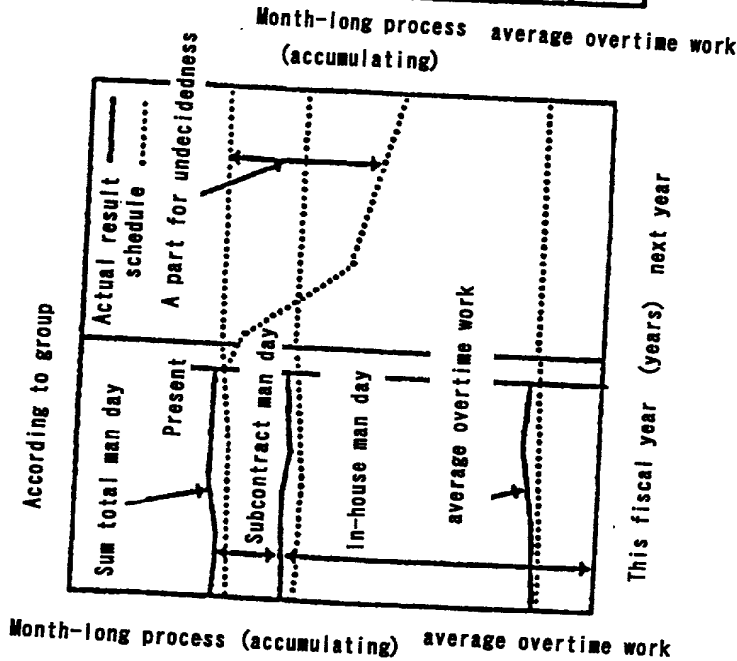


Fig. 8

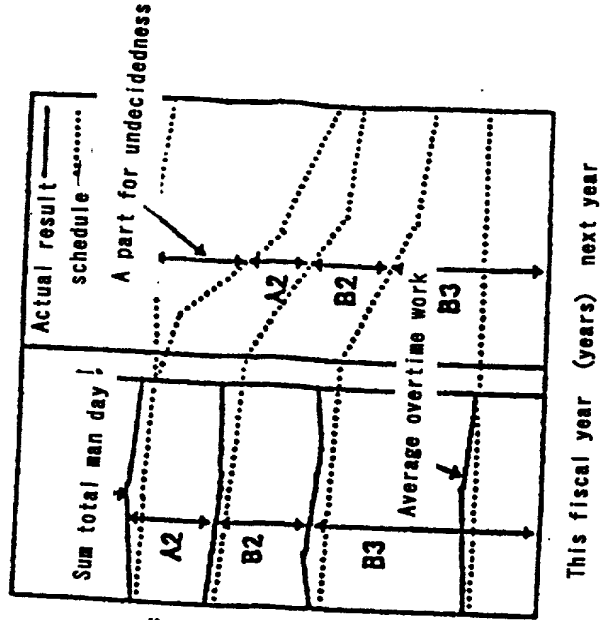
(1) according to PMS or a type of a car/model
(Example of a display)



(2) According to office organization
(a) An in-house man day and a subcontract man day
(Example of a display)



(b) Operating classification (A1-C6) or
an order-received form (A-C)
(Example of a display)
According to operation division



Declaration and Power of Attorney for Patent Application

特許出願宣言書及び委任状

Japanese Language Declaration

日本語宣言書

私は、以下に記名された発明者として、ここに下記の通り宣言する。

As a below named inventor, I hereby declare that:

私の住所、郵便の宛先及び国籍は、私の氏名の後に記載された通りである。

My residence, post office address and citizenship are as stated next to my name,

下記の名称の発明について、特許請求範囲に記載され、且つ特許が求められている発明主題に関して、私は、最初、最先且つ唯一の発明者である(唯一の氏名が記載されている場合)か、或いは最初、最先且つ共同発明者である(複数の氏名が記載されている場合)と信じている。

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

THE MANAGEMENT SYSTEM OF A PROCESS AND A MAN-DAY

上記発明の明細書はここに添付されているが、下記の欄がX印でチェックされている場合は、この限りでない:

the specification of which is attached hereto unless the following box is checked:

☐ ____月 ____日に出願され、

☐ was filed on February 28, 2001
as United States Application Number or PCT
International Application Number
09/763,942(Confirmation No.—Not Yet Assigned)
and was amended on

この出願の米国出願番号またはPCT国際出願番号は、

____であり、且つ

____ (if applicable).

____月 ____日に補正された出願(該当する場合)

私は、上記の補正書によって補正された特許請求範囲を含む上記明細書を検討し、且つ内容を理解していることをここに表明する。

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

私は、連邦規則法典第37編1.56に定義されている特許性について重要な情報を開示する義務があることを認める。

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

Japanese Language Declaration

(日本語宣言書)

私は、ここに、下記に記載した外国での特許出願または発明者証の出願、或いは米国以外の少なくとも一カ国を指定している米国法典第35編365条(a)項によるPCT国際出願について、同第119条(a)-(d)項又は第365条(b)項に基づいて優先権を主張するとともに、優先権を主張する本出願の出願日より前の出願日を有する外国での特許出願または発明者証の出願、或いはPCT国際出願については、いかなる出願も、下記の枠内をチェックすることにより示した。

Prior Foreign Applications

外国での先行出願

10/262441	Japan
(Number)	(Country)
(番号)	(国名)
11/90870	Japan
(Number)	(Country)
(番号)	(国名)
(Number)	(Country)
(番号)	(国名)

私は、ここに、下記のいかなる米国仮特許出願についても、その米国法典第35編119条(e)項の利益を主張する。

(Application No.)	(Filing Date)
(出願番号)	(出願日)

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(Application No.)	(Filing Date)
(出願番号)	(出願日)

(Application No.)	(Filing Date)
(出願番号)	(出願日)

私は、ここに表明された私自身の知識にかかわる陳述が真実であり、且つ情報と信ずることに基づく陳述が、真実であると信じられることを宣言し、さらに、故意に虚偽の陳述などを行った場合は、米国法典第18編第1001条に基づき、罰金または拘禁、もしくはその両方により処罰され、またそのような故意による虚偽の陳述は、本出願またはそれに対して発行されるいかなる特許も、その有効性に問題が生ずることを理解した上で、陳述が行われたことを、ここに宣言する。

I hereby claim foreign priority under Title 35, United States Code, Section 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Priority Not Claimed

優先権主張なし

August 31, 1998
(Day/Month/Year Filed)
(出願日/月/年)
March 31, 1999
(Day/Month/Year Filed)
(出願日/月/年)
(Day/Month/Year Filed)
(出願日/月/年)

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.)	(Filing Date)
(出願番号)	(出願日)

I hereby claim the benefit of Title 35, United States Code Section 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose any material information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

(Status: Patented, Pending, Abandoned)
(現況: 特許許可済、係属中、放棄済)

(Status: Patented, Pending, Abandoned)
(現況: 特許許可済、係属中、放棄済)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Japanese Language Declaration

(日本語宣言書)

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POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number)

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Full name of sole or first inventor

唯一又は第一発明者名

Shinya YAMADERA

Inventor's signature

発明者の署名

S. Yamadera

Date

日付

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第二共同発明者名 (該当する場合)

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(第三以降の共同発明者についても同様に記載し、署名をすること。)

(Supply similar information and signature for third and subsequent joint inventors.)

Japanese Language Declaration

(日本語宣言書)

Full name of third joint inventor, if any
第三共同発明者名(該当する場合)

Naofumi KUTSUMI

3-00

Third inventor's signature
第三発明者の署名

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Tadashi KINOSHITA

4-00

Fourth inventor's signature
第四発明者の署名

T. Kinoshita

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5-00

Fifth inventor's signature
第五発明者の署名

T. Sakamoto

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Full name of sixth joint inventor, if any
第六共同発明者名(該当する場合)

Kenji MITSUISHI

6-00

Sixth inventor's signature
第六発明者の署名

K. Mitsuishi

Date
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Japanese Language Declaration

(日本語宣言書)

Full name of seventh joint inventor, if any 第七共同発明者名(該当する場合)		<u>Tsutomu KANEKO</u>	
7-00			
Third inventor's signature 第七発明者の署名	<i>T. Kaneko</i>	Date 日付	April 12, 2001
Residence 住所	18F Kawasaki Tech-Center 580-16, Horikawa-cho, Saiwai-ku, <u>Kawasaki-shi</u> , JPx Kanagawa 212-0013, Japan		
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Full name of eighth joint inventor, if any 第八共同発明者名(該当する場合)		<u>Shin FUJITA</u>	
8-00			
Eighth inventor's signature 第八発明者の署名	<i>Shin Fujita</i>	Date 日付	April 12, 2001
Residence 住所	18F Kawasaki Tech-Center 580-16, Horikawa-cho, Saiwai-ku, <u>Kawasaki-shi</u> , JPx Kanagawa 212-0013, Japan		
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Post office address 郵便の宛先	Same as above		
Full name of ninth inventor, if any 第九共同発明者名(該当する場合)		<u>Yuichiro WATANABE</u>	
9-00			
Ninth inventor's signature 第九発明者の署名	<i>Y. Watanabe</i>	Date 日付	April 12, 2001
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Full name of tenth joint inventor, if any 第十共同発明者名(該当する場合)			
Tenth inventor's signature 第十発明者の署名		Date 日付	
Residence 住所			
Citizenship 国籍			
Post office address 郵便の宛先			

Japanese Language Declaration

(日本語宣言書)

Supplemental Priority Data Sheet

Additional prior foreign applications:

Number (番号)	Country (国名)	Day/Month/Year Filed (出願年月日)	Priority Not Claimed (優先権主張なし)
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

Additional provisional applications:

Application Number (出願番号)	Filing Date (出願日)

Additional U.S. applications:

Application Number (出願番号)	Filing Date (出願日)	Status: Patented, Pending, Abandoned (現況: 特許許可済、係属中、放棄済)